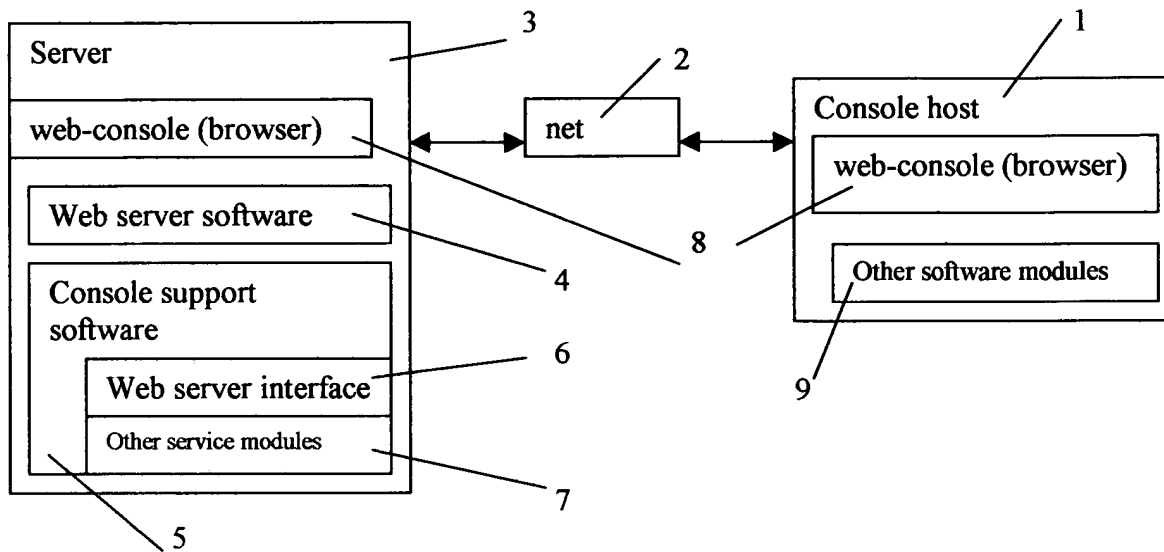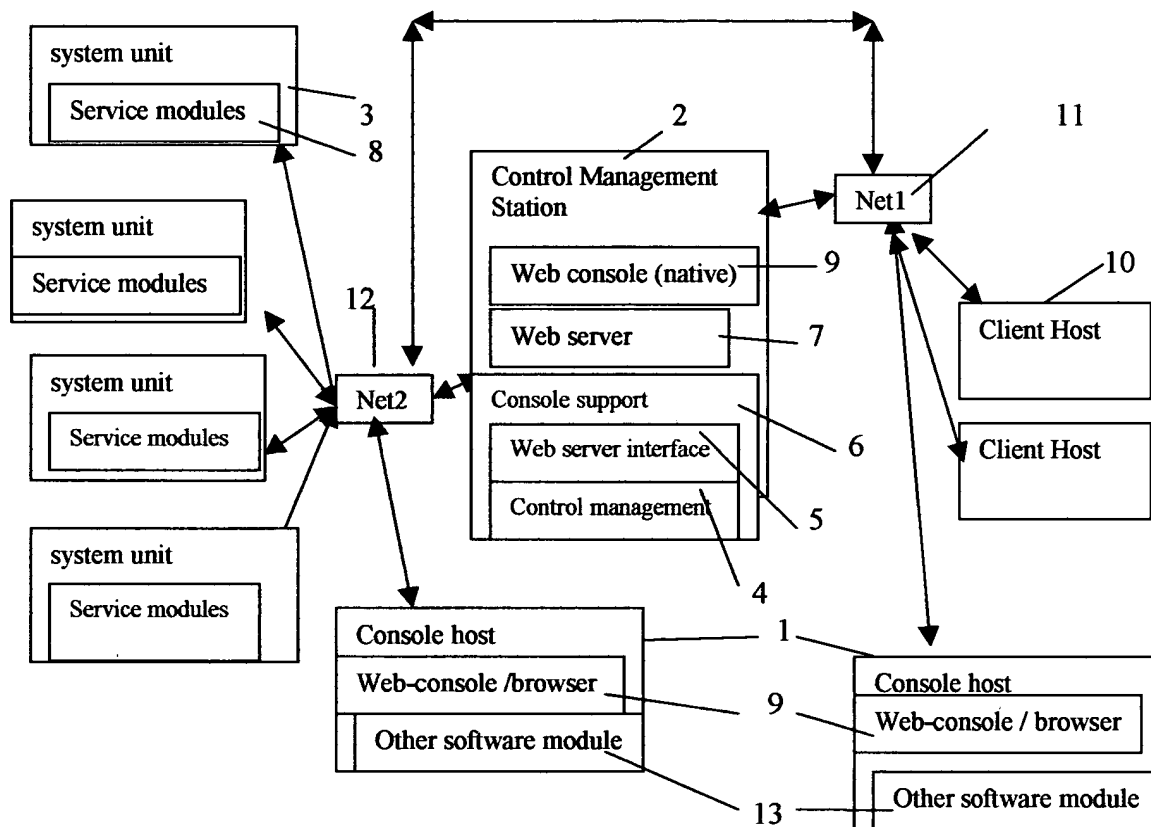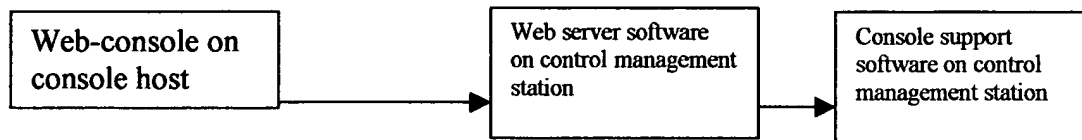**Console support in a Simple Environment**

. **FIG. 1**

Console support in CCDSVM environment

Fig. 2

Data traveling between web-console and console supporting software

a) Data Path 1:

Referred as sending data from web-console (9 of Fig. 2) to console support software (6 of Fig. 2) or referred as console supporting software (6 of Fig. 2) get data from web-console (9 of Fig. 2).

| Web-console on console host | → | Web server software on control management station | → | Console support software on control management station |

b) Data Path 2: (reverse path)

Referred as sending data from console supporting software (6 of Fig. 2) to web-console (9 of Fig. 2) or referred as web-console (9 of Fig. 2) gets data from console supporting software (6 of Fig. 2)
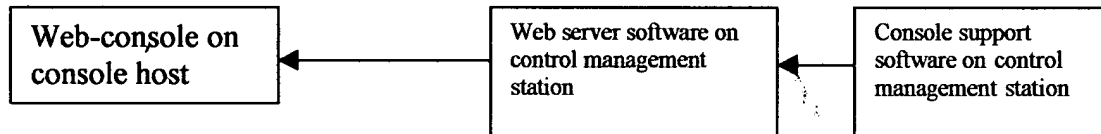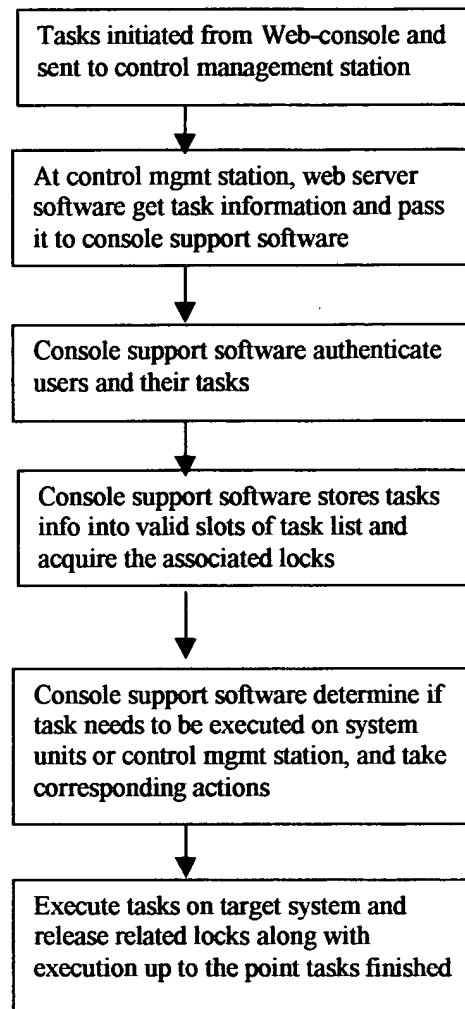
| Web-console on console host | ← | Web server software on control management station | ← | Console support software on control management station |

Fig. 3

Basic Task & Operation Processing Flow Chart in a CCDSVM environment.

```
┌─────────────────────────────────────────┐
│ Tasks initiated from Web-console and     │
│ sent to control management station       │
└─────────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────────┐
│ At control mgmt station, web server      │
│ software get task information and pass   │
│ it to console support software           │
└─────────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────────┐
│ Console support software authenticate    │
│ users and their tasks                    │
└─────────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────────┐
│ Console support software stores tasks    │
│ info into valid slots of task list and   │
│ acquire the associated locks             │
└─────────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────────┐
│ Console support software determine if    │
│ task needs to be executed on system      │
│ units or control mgmt station, and take  │
│ corresponding actions                    │
└─────────────────────────────────────────┘
                    │
                    ▼
┌─────────────────────────────────────────┐
│ Execute tasks on target system and       │
│ release related locks along with         │
│ execution up to the point tasks finished │
└─────────────────────────────────────────┘
```

FIG. 4

The abstraction of data structure for multiple simultaneous concurrent tasks and operations supp rt in CCDSVM environment.
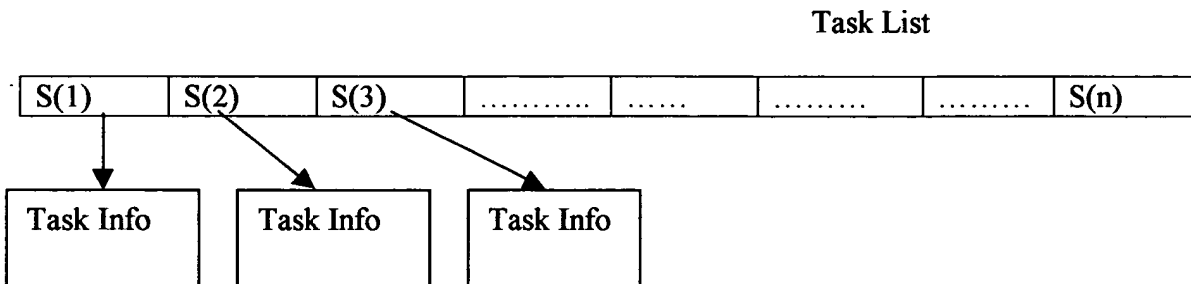
Task List
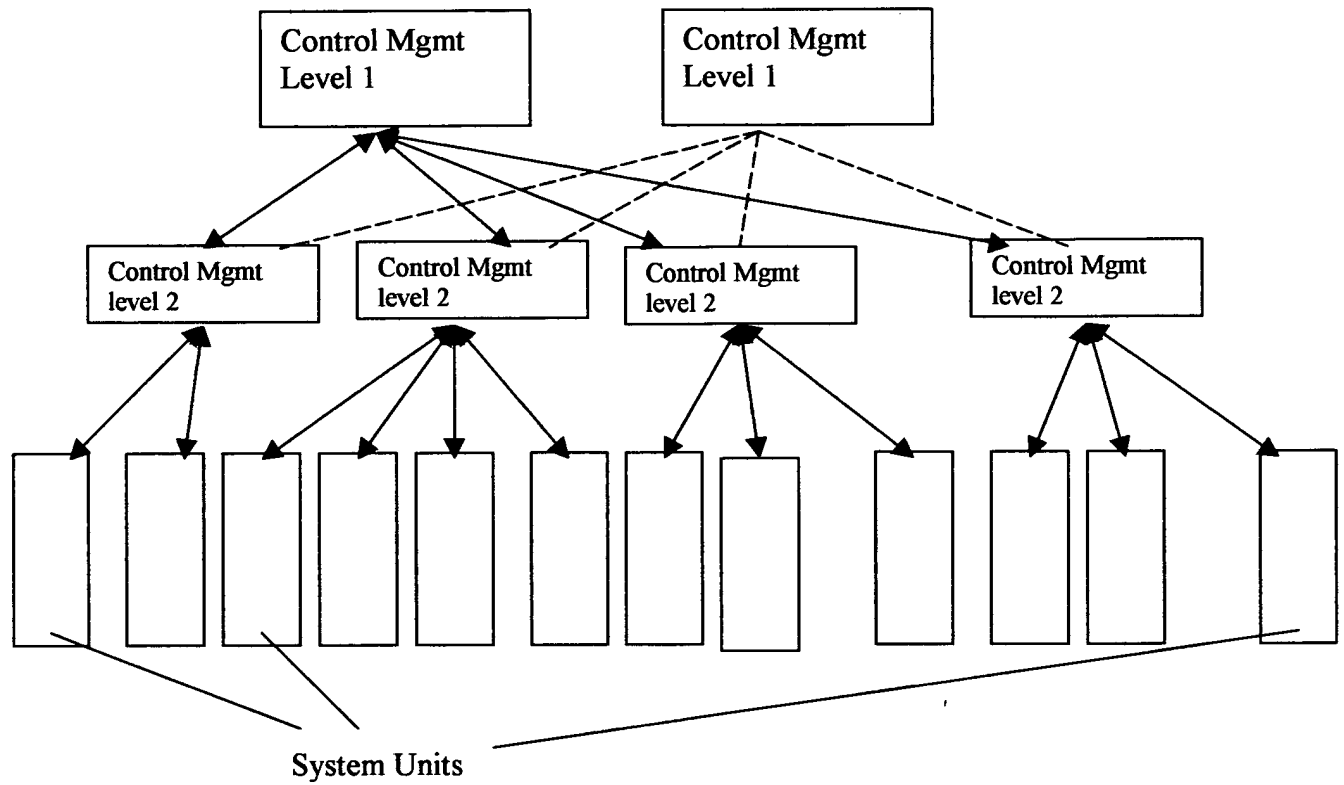
S(1)	S(2)	S(3)	....	......	....	....	S(n)

Task Info	Task Info	Task Info

Fig. 5

A Layered CCDSVM structure

Fig. 6